

ILLEGIB

Approved For Release 2001/07/12 : CIA-RDP78T05439A000400390003-6

Approved For Release 2001/07/12 : CIA-RDP78T05439A000400390003-6

Copy 4  
7 Pages

~~TOP SECRET~~

TCS-80250/65

February 1965

PHOTOGRAPHIC INTERPRETATION REPORT

16560

URANIUM METALS PLANT  
GLAZOV, USSR



DECLASS REVIEW BY NIMA / DoD



CIA



DIA

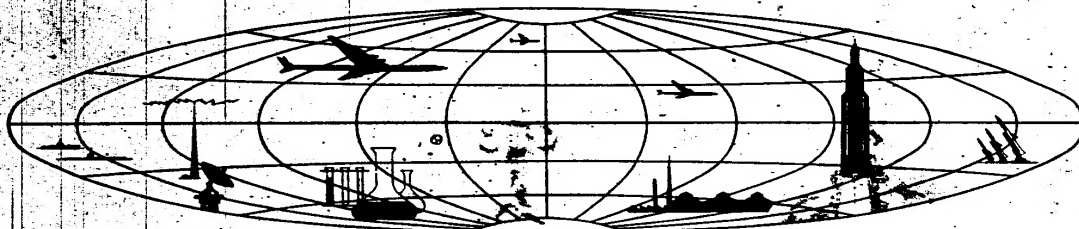
25X1D

Handle Via **TALENT - KEYHOLE** Control Only

WARNING

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



~~TOP SECRET~~

GROUP 1  
Excluded from automatic  
downgrading and declassification

# TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-80250/65

## URANIUM METALS PLANT, GLAZOV, USSR, [REDACTED]

25X1D

### INTRODUCTION

This report updates previous reports 1/2/ describing the Uranium Metals Plant [REDACTED] Glazov, USSR, located at 58-09N 52-40E (Figure 1). This report is based on KEY-HOLE photography of [REDACTED]. The [REDACTED] coverage is of good quality and reveals details which were not evident on previous photography; Figure 2 presents an overall view of the plant and the surrounding areas.

No major changes or expansions have taken place within the plant itself since [REDACTED]

[REDACTED] although a new slurry pond (item E, Figure 2) has been added north of the secured plant area. A number of structures are shown on the plant layout (Figure 3) which were not illustrated in the corresponding figure of the 1963 report; 1/ these structures existed in [REDACTED] but were not clearly identifiable on the photography then available. Dimensions and brief descriptions of the buildings within the plant are presented in Table 1 which is keyed to Figure 3; in addition to the newly identified buildings, revised dimensions of previously described structures are included in this table. The numbering system used does not correspond to that used in the previous report.

### PLANT AND ADJACENT FACILITIES

The Metals Plant (Figure 3) is located in an irregularly shaped area measuring approximately 4,520 by 3,250 feet; it is secured by an outer wall and an inner fence. Adjacent to the plant on the northwest is an area containing storage buildings, a mill, and a probable ore pile; this area is secured by a double fence (Figure 2).

No apparent changes have been made to existing buildings and structures within the secured area of the plant since [REDACTED] nor have any new buildings of importance been constructed. Significant among the structures newly identified within the plant area are 2 apparently mounded structures (items 17 and 18, Figure 3) in the southwestern section; these appear somewhat similar to those observed at the Novosibirsk Uranium Metal Plant 3/ and at the Uranium Metal Plant at Elektrostal. 4/

Other newly identified structures include the following (all item numbers are keyed to



FIGURE 1. LOCATION OF URANIUM METALS PLANT, GLAZOV, USSR.

Handle Via  
TALENT-KEYHOLE  
Control System Only

# TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-80250/65



FIGURE 2. URANIUM METALS PLANT AND ADJACENT FACILITIES

NPIC J-1847 10-65

- 2 -

25X1D

TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

Handle Via  
TALENT-KEYHOLE  
Control System Only

# TOP SECRET CHESS RUFF

TCS-80250/65



FIGURE 3. LAYOUT OF URANIUM METALS PLANT.

- 3 -

# TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

# TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-80250/65

Table 1. Structures at Uranium Metals Plant (Item numbers are keyed to Figure 3. This table revises building dimensions presented in a previous report; the numbering system does not correspond to that used previously. Low sun angle and long shadows across buildings precluded a determination of the height of almost all structures.)

Item	Description	Dimensions (ft)
1	Probable support bldg	315 x 80
2	Probable administration security bldg	100 x 60
3	Probable support bldg	---
4	Unidentified bldg	130 x 115
5	Unidentified bldg	225 x 45 x 30 h
6	Support bldg	160 x 70
7	Processing bldg	275 x 130
8	Fabrication bldg with pipeline to item 14	400 x 85
9	Small probable support bldg	---
10	Probable support bldg	115 x 55
11	Unidentified bldg	105 x 65
12	Laboratory bldg	115 x 35
	wings	75 x 40
13	Support bldg	175 x 65
14	Processing bldg with roof vents and pipeline to items 8 and 20	715 x 170
15	Probable laboratory bldg	---
16	Processing bldg	---
	stem	310 x 65
	bar	140 x 40
17	Unidentified mound structure	---
18	Unidentified mound structure	---
19	Processing bldg with roof vent and pipeline to item 20	320 x 75
20	Processing bldg with roof vents and pipeline to items 14 and 19	715 x 170
21	Probable laboratory bldg	160 x 65
	wings	145 x 45
22	Processing bldg	---
	stem	310 x 65
	bar	140 x 40
23	Processing bldg	---
	stem	310 x 65
	bar	140 x 40
24	Support or storage bldg	225 x 65
25	Unidentified bldg	240 x 60
26	Guardhouse	---
27	Guardhouse	---
28	Vertical tanks (6)	---
29	Support bldg	190 x 85
30	Support bldg	200 x 90
31	Processing bldg	---
	stem	300 x 70
	bar	90 x 30
32	Processing bldg	300 x 85 x 20 h
33	Unidentified bldg	185 x 65
34	Probable storage bldg	---
35	Storage bldg	250 x 50
36	Storage bldg	330 x 125
37	Processing bldg	407 x 120
38	Chemical processing bldg	280 x 95
39	Chemical processing bldg	495 x 105
40	Unidentified bldg, associated with item 39	---
	stem	210 x 55
	bar	90 x 30
41	Support bldg	135 x 60
42	Support bldg	140 x 65 x 40 h

25X1D

TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

Handle Via  
TALENT-KEYHOLE  
Control System Only

# TOP SECRET CHESS RUFF

TCS-80250/65

Table 1. (Continued)

Item	Description	Dimensions (ft)
43	Probable support bldg	---
44	Probable support bldg	---
45	Storage bldg	330 x 125
46	Probable storage bldg	365 x 85
47	Storage bldg	155 x 70
48	Storage bldg	135 x 65
49	Unidentified bldg	65 x 55
50	Switching house with pipeline to item 57 wing	240 x 45 80 x 60
51	Support bldg	---
52	Support bldg	185 x 110
53	Cooling tower	125 h 78
	top diam	130
	base diam	---
54	Storage bldg	---
55	Storage bldg	---
56	Storage bldg	---
57	Thermal powerplant with pipeline to item 50: overall	750 x 150
58	Probable support bldg	---
59	Probable support bldg	---
60	Probable chemical storage facility: 8 small structures in revetment	---
61	Unidentified bldg	100 x 65
62	Unidentified bldg	85 x 45
63	Probable substation	---
64	Probable support bldg	110 x 40
65	Probable water purification bldg with 2 associated vertical tanks wing	230 x 55 80 x 40
66	Possible coal processing facility associated with powerplant	445 x 45
67	Unidentified facility associated with powerplant	---
68	Probable storage bldg	---
69	Probable storage bldg	260 x 75
70	Support bldg	100 x 50
71	Support bldg	160 x 100
72	Probable coal washing and processing facility	---
73	Chemical processing bldg	---
74	Possible stripping tanks, vertical	---
75	Chemical processing bldg	---
76	Possible extraction tanks, vertical	---
77	Water basin	---
78	Unidentified structure	---
79	Sedimentation bldg with associated stack: overall stack	435 x 125 230 h
80	Chemical processing bldg with roof vents and pipeline to items 81, 83, and 84	430 x 160
81	Chemical processing bldg with roof vents and pipeline to items 80 and 84	585 x 195
82	Sedimentation bldg	400 x 90
83	Chemical processing bldg with pipeline to item 80	305 x 95
84	Chemical processing bldg with pipeline to items 80 and 81	325 x 115
85	Support bldg	120 x 50
86	Unidentified bldg	---
87	Unidentified bldg	---
88	Support bldg	135 x 55
89	Chemical processing bldg	400 x 85
90	Chemical processing bldg	225 x 70

25X1D

25X1D

Handle Via  
TALENT-KEYHOLE  
Control System Only

## TOP SECRET CHESS RUFF

TCS-80250/65

Table 1. (Continued)

Item	Description	Dimensions (ft)
91	Support bldg	195 x 65
92	Sedimentation bldg with roof vent, pipeline to item 95, and associated stack	415 x 105
93	Probable acid storage bldg	195 h 290 x 135
94	Unidentified bldg	220 x 55
95	Sedimentation bldg with pipeline to items 92 and 96	285 x 80
	wing at east end	110 x 100
	wing at west end	125 x 30
96	Probable ball mill with roof vents and associated stack	775 x 115
	bar at east end	185 x 35
97	Storage bldg	215 x 45
98	Sedimentation bldg with pipeline to item 95	410 x 50
	wing at east end	125 x 55
	wing at west end	120 x 45
99	Support bldg	195 x 45

Figure 3): 6 vertical tanks in the southeastern section (item 28), a probable electric substation (item 63), a water basin (item 77), 2 small tanks apparently associated with the probable water purification building (item 65), and stacks associated with 3 buildings (items 79, 92, and 96).

Photography of [REDACTED] revealed steam rising from all roof vents, and all the stacks except the one associated with Building 79 were emitting smoke.

Outside and north of the secured plant area a new slurry pond (item E, Figure 2) has been constructed, and a slurry pond (item D) which

was under construction in [REDACTED] has been completed. A powerline and a substation (items K and L) northwest of the plant have been newly identified.

A steamline extends from the northern portion of the Metals Plant to serve the mill, and another steamline extends from the western part of the plant to a large building south of the storage buildings.

Construction activity is in progress near the area of the water intake. The volume of the probable ore pile (item I) is approximately 1,238,250 cubic feet.

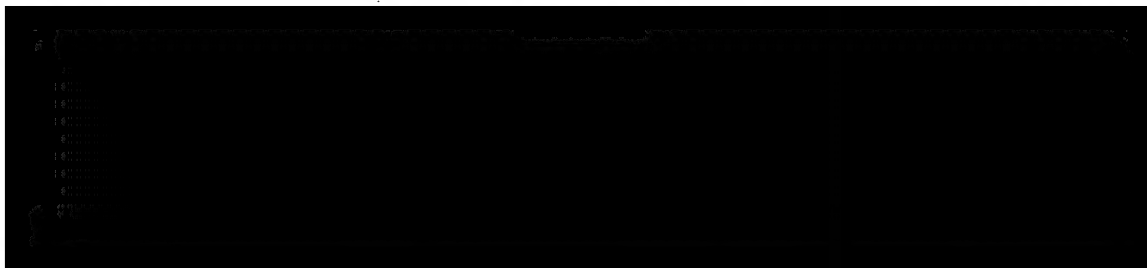


Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET CHESS RUFF

TCS-80250/65

REFERENCES



25X1D

MAPS OR CHARTS

25X1A

ACIC. US Target Complex Chart, Series 25, [REDACTED] (Prov), 1st interim ed, Mar 54, scale 1:25,000 (SECRET)

SAC. US Air Target Chart, Series 200, Sheet 0155-14AL, 2d ed, Jan 60, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. R-300 '63, *Uranium Metals Plant, Glazov, USSR, July 1963*, Nov 63 (TOP SECRET CHESS RUFF)
2. NPIC. B-15 '61, *Uranium Metals Plant, Glazov, USSR*, Aug 61 (TOP SECRET RUFF)
3. CIA. HTA JR-5 '58, *Atomic Energy Feed Materials Complex, Novosibirsk, USSR*, Jul 58 (TOP SECRET CHESS)
4. NPIC. R-247 '64, *Uranium Metal Plant, Elektrostal, USSR*, Apr 64 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA OSI. C-815-82,157

NPIC PROJECT

11041 '65 (partial answer)

TOP SECRET CHESS RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only